Pablo Rio

Installation Guide

This manual is revision E

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Installation

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Overview

What is Pablo Rio?

Pablo Rio can be a software only option or a full turnkey system. Video storage is available for the turnkey system and the software only option. The Neo or NeoNano panel can also be added for an ergonomic user interface.

This installation guide is intended for the software only option. The Pablo Rio software can be installed on a third party PC of the specification stated in this guide. See 'PC Specification' on the following page for details.

Pablo Rio has a VTR connection. See chapter 2 for details of VTR installation.

Download GenQ Software, Drivers & User Info

To download additional user guides and drivers open a browser and go to:

http://www1.quantel.co.uk/public/wbsr2.nsf/pubindex/PabloRioUtilities

The above link provides access to general user guides, the Pablo Rio technical specification (hardware option only) and driver downloads.

To download Pablo Rio software open a browser and go to:

http://www1.quantel.co.uk/public/wbsr2.nsf/pubindex/PabloRioLatest

Hardware Specifications

PC Specification

For Pablo Rio software to operate correctly, you need to have a PC that matches or exceeds the specifications below:

processor	Dual Xeon E5-2690 2.9 Ghz 20MB 1600 8C.
memory	32GB RAM. This should consist of 8 x 4GB ECC Reg 1600Mhz DDR3 DIMMS. 1 Dimm needs to be plugged into each memory channel.
display card	NVIDIA Quadro 600, or better.
rendering cards	1 or 2 NVIDIA Tesla C2075 cards .
sound card	A Windows compatible sound card.
ethernet card	A gigabit ethernet card (Intel chipset recommended).
hardware	Keyboard and mouse.
monitor(s)	1 flat panel monitors with a resolution of 1920 x 1080 or greater.
storage	4 x 10 000RPM, or 15 000RPM disk drives. These need to be configured into 2 x RAID-1 arrays. One as the system and software disk and the other for audio.

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operating system Windows 7 Professional or Windows 7 Ultimate.

Video Disk Configuration

A typical video disk configuration consists of the following:

a LSI 9285-8e SAS2 RAID controller, or equivalent.

b External disk enclosure containing 24 x 10 000 or 15 000 RPM SAS2 drives.

c Drives configured as a 24 drive RAID-60 array. (10+2) + (10+2).

Installation & Setup

To setup your PC, install Windows and drivers then install Pablo Rio software. Do the following steps:

Step 1: Setup the PC

Before you can install the software setup the PC as follows:

1. Connect the keyboard, mouse, monitor(s) and the external disks to the system.
2. Connect the system and external disks to the power supply and turn the power on.
3. Enter the PC's Basic Input/Output System (BIOS) and disable **Hyperthreading**.
4. Complete the other BIOS settings in accordance with your company's IT policy and save changes.
5. Enter the PC's primary SAS\SATA RAID controller and create two RAID-1 arrays.

Use the drives in the PC chassis, not the drives intended for the video drive.

6. Enable **WriteBack Cache** (if possible) on both arrays and setup one array as bootable.

Step 2: Install Windows & Drivers

To install Windows and drivers do the following:

1. Install a standard copy of Windows 7 (64-Bit). The recommended system partition size is 128 GB. The remaining space on the first drive is used for the Quantel software partition.
2. Activate Windows 7 and install the latest Microsoft updates.
3. Install any other software in accordance with your company's IT policy including anti-virus software.
4. Install the latest drivers for all hardware by opening a browser and navigating to the following links:

NVIDIA	http://www.nvidia.co.uk/Download/index.aspx
Intel Chipset	**https://downloadcenter.intel.com**
Intel Gigabit Ethernet	**https://downloadcenter.intel.com**
SAS2 RAID controllers	
Adaptec	**http://www.adaptec.com/en-us/downloads/**
ATTO	https://www.attotech.com/
LSI	**http://www.lsi.com/support/Pages/download-search.aspx**
Intel	**https://downloadcenter.intel.com**

Note that the above links may change at any time.

5. Install drivers for the USB dongle by opening a browser and going to the following link:

http://www1.quantel.co.uk/public/wbsr2.nsf/pubindex/PabloRioUtilities

6. Plug the USB dongle into a spare USB port.
7. Install the latest version of the RAID card management software:

Adaptec SAS\SATA RAID cards	Adaptec Storage Manager
ATTO SAS\SATA RAID cards	ATTO RAID configuration tool
LSI SAS\SATA RAID cards	LSI Storage Manager
Intel SAS\SATA RAID cards	Intel (R) Rapid Storage Technology enterprise

8. Install MSXML 4.0 from the following link:

   http://www.microsoft.com/en-gb/download/details.aspx?id=19662

Note that the above link may change at any time.

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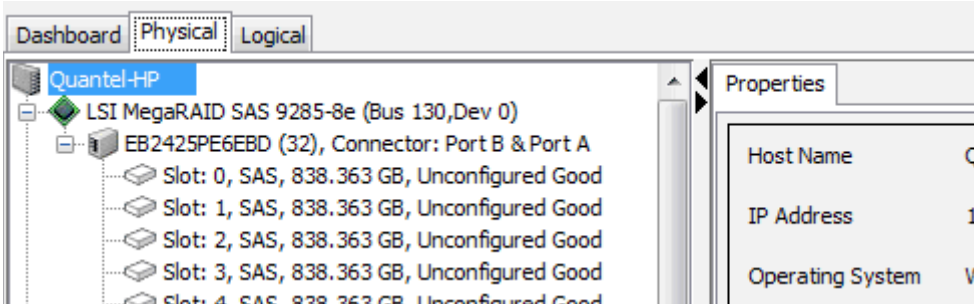
Step 3: Create Video Disk Array

A RAID array of sufficient capacity that is capable of providing the required bandwidth needs to be created.

See the RAID controllers documentation for details of how to create an appropriate RAID array.

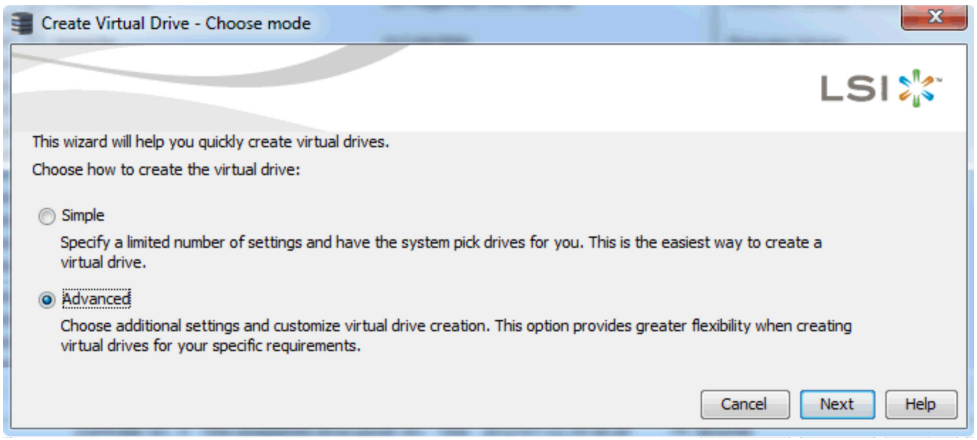
The Quantel recommended RAID controller and video disk configuration can be setup by doing the following:

1. Run the **LSI Storage Manager** application.
2. Enter a username and password then press **Login.**
3. Select the **Physical** tab. The 'LSI MegaRAID SAS 9285-8e' card is displayed with the 24 drives connected to it.



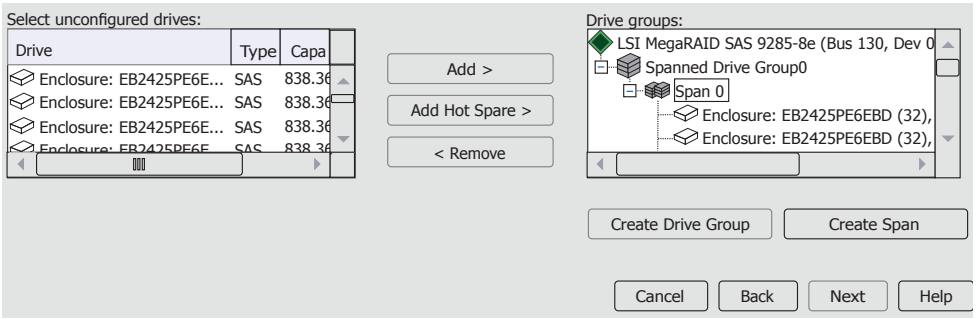
All the drives need to be listed as 'Unconfigured Good'.

4. Right-click on **LSI MegaRAID SAS 9285-8e** and select **Create Virtual Drive.** A **Create Virtual Drive** window opens.
5. Select **Advanced** in the **Create Virtual Drive** window and click **Next**.



6. Select **RAID 60 – Spanned Drive Group** from the **RAID level** scroll box.

7 Select the first 12 drives in the **Select unconfigured drives** box and then click **Add >.**



These drives now appear in the **Drive groups** box under **Span 0**.

8 Press **Create Span**.

9 Select the remaining 12 drive drives from the **Select unconfigured drives** box and click **Add >**. These dives now appear in the **Drive groups** box under **Span 1.**

10 Press **Create Drive Group** and then press **Next**.

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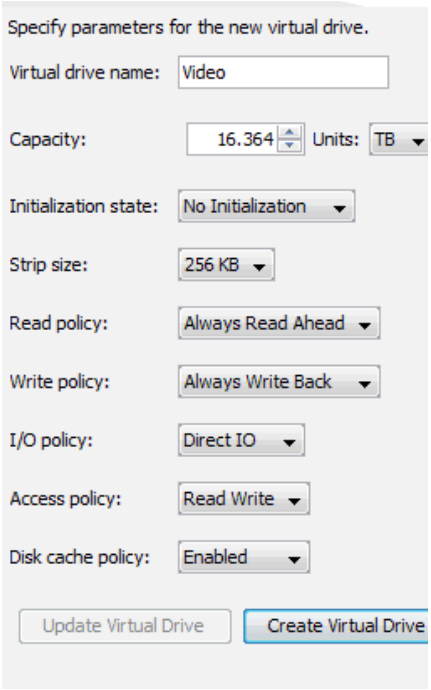
11 Specify the settings as follows:



Virtual drive name: Video

Capacity: Leave as default (Maximum RAID capacity)

Initialization state: *See note**

Strip size: 256KB

Read policy: Always Read Ahead

Write policy: Always Write Back

I/O policy: Direct I/O

Access policy: Read Write

Disk cache policy: Enabled

* For the RAID array to be functional at full speed, it needs to be initialised. There are three options you can select from the **Initialize state** scroll box.

No initialization No initialization is performed, so the RAID array is immediately put online and is available for use. After the array is created, the RAID controller initiates a **Back Ground Initialization** which takes approximately 18 hours to complete. The RAID array is functional during this period, but cannot operate at full speed.

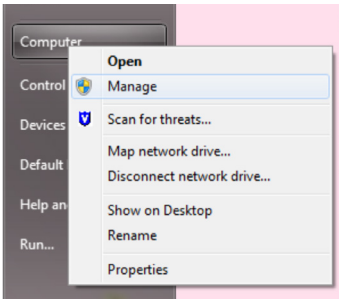
Fast Initialization The first and last 8MB of the array is initialised. After the array has been created, the RAID controller initiates a **Back Ground Initialization** which takes approximately 18 hours to complete. The RAID array is functional during this period, but cannot operate at full speed.

Full Initialization A full initialization is performed immediately. All resources are devoted to the initialization. The array is not functional during this period. The full initialization takes approximately 2 hours to complete.

It is strongly recommended that the initialization process is allowed to complete before using the RAID array.

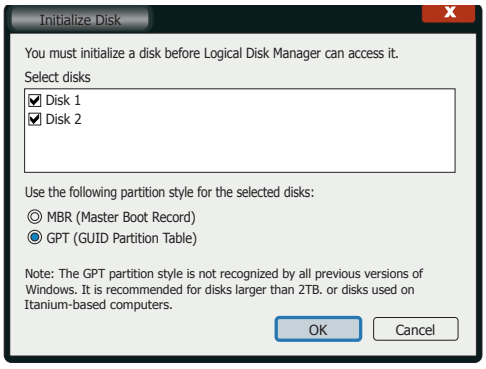
Step 4: Prepare Drive Partitions

After the RAID disk arrays have been setup and initialized, prepare the drive partitions by doing the following:



1 Right-click **Computer** in the **Windows Start** menu and then select **Manage**.

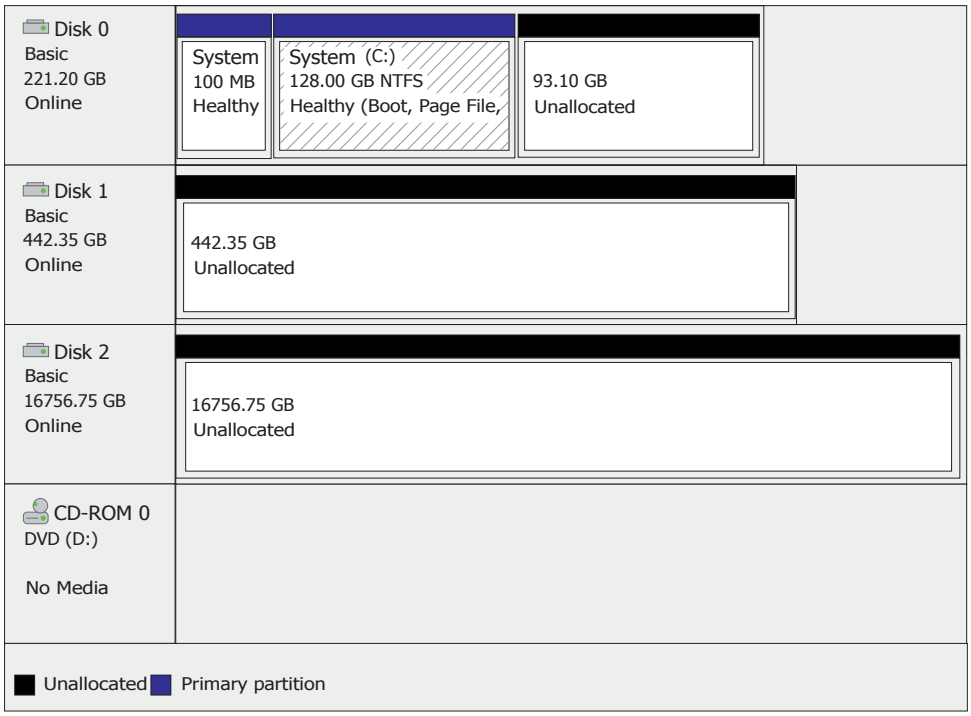
2 Select **Disk Management** from the **Manage Computer** window.



3 Select both disks in the **Initialize Disk** window.

4 Select **GPT (GUID Partition Table)** and then press **OK**.

The 'Disk Management' window should be similar to the one shown below.



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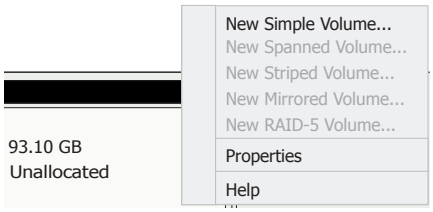
Setup the Data Partition

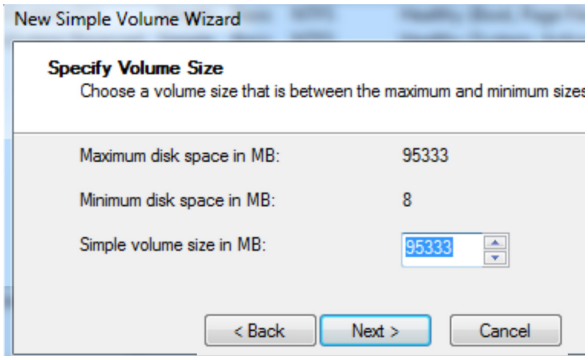
To setup the data drive partition, do the following:



1 Right-click on the remaining unallocated space on Disk 0 and select **New Simple Volume**.

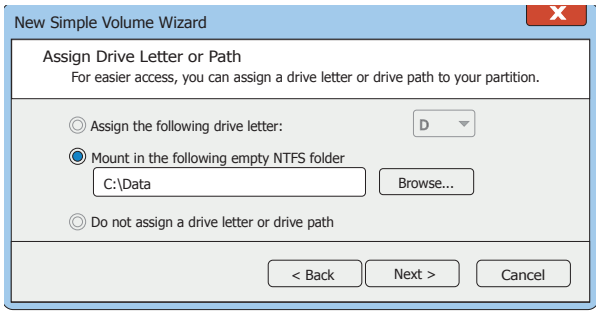
This opens the **New Simple Volume** setup wizard.

2 Press **Next** on the first page of the wizard.



3 Use all the remaining space on the disk. The maximum space is specified as default. Click **Next** when the maximum space is specified.

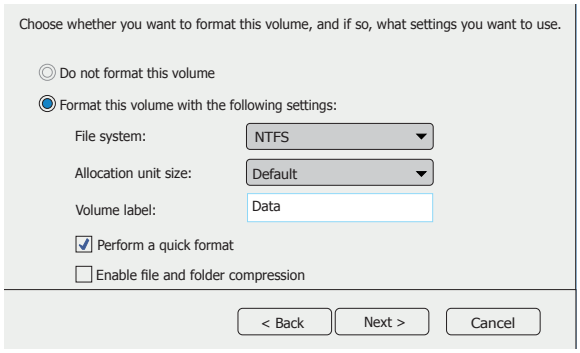
4 Select **Mount in the following empty NTPS folder.**



Press **Browse...** Select the C drive and press **New folder**. Name the new folder 'Data' and press **OK**.

When 'C:\Data' is displayed in the NTFS folder field, press **Next >**.

5 Select **Format this volume with the following settings.**



Select **NTFS** from the **File system** drop-down menu.

Leave the **Allocation unit size** as **Default**.

Type 'Data' in the **Volume label** field.

6 Ensure **Perform a quick format** is selected.

7 Press **Next** and then **Finish**.

Setup the Audio Partition

To setup the Audio Partition (this is similar to setting-up the Data partition) do the following:

1 Right-click on the unallocated space on **Disk 1** and select **New Simple Volume**.

See step 1 of 'Setting-up the Data Partition' for images.

2 Press **Next** on the first page of the **New Simple Volume** wizard.

3 Make sure the maximum space of the disk is specified in the **Simple volume size in MB** field and press **Next**.

4 Select **Mount in the following empty NTFS folder** and press **Browse**. Select **New folder**, title it 'Audio' and press **OK**. When 'C:\Audio' is displayed in the NTFS folder field, press **Next >**.

5 Select **Format this volume with the following settings.** Select **NTFS** from the **File system** drop-down menu; leave the **Allocation unit size** as **Default** and type 'Audio' in the **Volume label** field.

6 Ensure **Perform a quick format** is selected.

7 Press **Next** and then **Finish**.

Setup the Video Partition

To setup the Video Partition (this is similar to setting-up other partitions) do the following:

1 Right-click on the unallocated space on **Disk 2** and select **New Simple Volume**.

See step 1 of 'Setting-up the Data Partition' for images.

2 Press **Next** on the first page of the **New Simple Volume** wizard.

3 Make sure the maximum space of the disk is specified in the **Simple volume size in MB** field and press **Next**.

4 Select **Mount in the following empty NTFS** folder and press **Browse**. Select the 'Data' folder and then press **New folder**. Name it 'Video' and press **OK**. When C:\Data\Video is displayed in the NTFS folder field, press **Next >**.

5 Select **Format this volume with the following settings.** Select **NTFS** from the **File system** drop-down menu; leave the **Allocation unit size** as **Default** and type 'Video' in the **Volume label** field.

6 Ensure **Perform a quick format** is selected.

7 Press **Next** and then **Finish**.

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Step 5: Download & Install Quantel Software

Download Pablo Rio Software

If the Pablo Rio software is purchased, a CD containing the license will be sent to you. After the disk partitions are setup, you can install the Quantel Pablo Rio software.

To download Quantel software do the following.

1 On the Pablo Rio PC, open a web browser and in the Address Bar enter

http://www1.quantel.co.uk/public/wbsr2.nsf/pubindex/PabloRioLatest?OpenDocument.

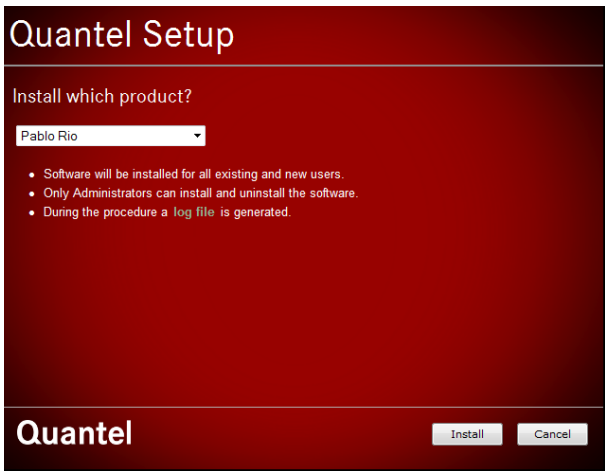
2 The **Pablo Rio** software consists of one **setup.exe** file and three more **Pablo Rio part.qpd** files: download all these files (they must all be kept in the same directory).

Install the Software

To install the Quantel software, do the following:

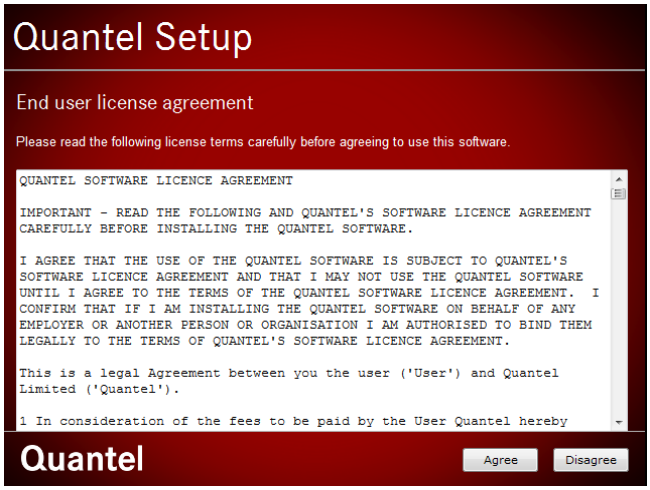
1 On the Pablo Rio PC, login as Windows **administrator** and double-click the downloaded Pablo Rio **setup.exe** file (alternatively, right-click the exe file and select **run as administrator**).

The Quantel installer window now appears with the message **please wait while Quantel prepares to install...**



The window on the left then appears.

2 Select **Pablo Rio** from the product drop-down box and press **Install** in the bottom-right of the window.



The end user license agreement then appears.

3 Read this carefully and then press **Agree** to accept the license agreement.

The software now installs: this may take a while.

The window on the left appears stating that installation is complete.

4 Tick **create shortcut on the desktop** and then press **OK** in the bottom-right of the window.

Install the License

Before running the software for the first time, the license needs to be installed:

1 In Windows create the directory **C:\Data\Licenses**
Note that 'licenses' must be spelt like this!

2 Place the supplied **lservrc.lic** license file in this directory.

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Step 6: Specify Settings

After installing the license and before running the software for the first time, settings must be entered as described throughout this section. Note that some settings not described here are optional, depending on user preference.

1 Login as Windows administrator. Press **Start – All Programs – Quantel – Pablo Rio V# – Settings** (alternatively, right-click **Settings** then select **run as administrator**). The scroll box at the top-left of the Settings window provides access to different menus:

Essence: Audio

2 From the top-left drop down box select **Essence: Audio**.

3 Tick **Use all space on location's disk.**

Essence: Video

4 From the top-left drop down box, select **Essence: Video (PC)**.

5 Ensure the storage location is set to **C:\Data\Video**

6 Tick **Use all space on location's disk.**

The folders 'C:\Audio\' and 'C:\Data\Video\' were setup during 'Step 4: Prepare Drive Partitions'.

License

7 From the top-left drop down box, select **License**.

8 Select the **Local** button.

9 Check that the **License file location** path is **C:\Data\Licenses\lservrc.lic**

10 Select **OK** to action all the changes and exit the Settings window.

If you need to change settings after Pablo Rio has been launched, always ensure you restart the software after completing the changes.

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Step 7: Final Setup (Cuda Devices)

After installing the Quantel GenQ software and specifying the settings, complete the following for Pablo Rio to operate correctly:

Identifying Cuda Capable Devices

1. Run the Quantel GenQ software by double-clicking on the desktop short-cut.
2. Exit the software by holding down <Ctrl> and pressing <F9>.
3. Open **C:\Data\Logs** and double-click on the **Recent.html** log file.
4. Search this file for the '**cudaDevice**' string. This navigates you to a section in the log that displays all the Cuda capable devices found on the system. See example below:

```
11:15:39.564  4004    QUANTEL_QIMAGECUDA     cudaDevice Enabled:      Tesla C2075
11:15:39.564  4004    QUANTEL_QIMAGECUDA Mem:4294967295 Shared:49152,
Reg:32768 warp:32 pitch:2147483647
11:15:39.564  4004    QUANTEL_QIMAGECUDA threads:1024 threadDim:1024
gridSize:65535 constMem:65536
11:15:39.564  4004    QUANTEL_QIMAGECUDA version:2.0 clock:1147000
textureAlign:512 texturePitchAlignment:3    2
11:15:39.564  1678   +CUDADRIVER 0 Started thread...
11:15:39.564  4004    QUANTEL_QIMAGECUDA QImageCuda - found 3 device
```

5. For each device listed, make a note of the 'cudaDevice' number and the device name. For example:

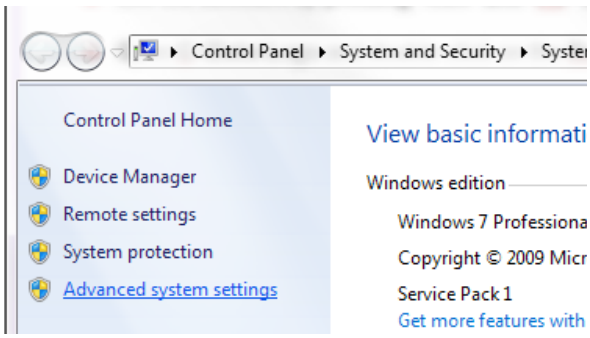
number	cudaDevice 0
name	Tesla C2075

Create an Environment Variable

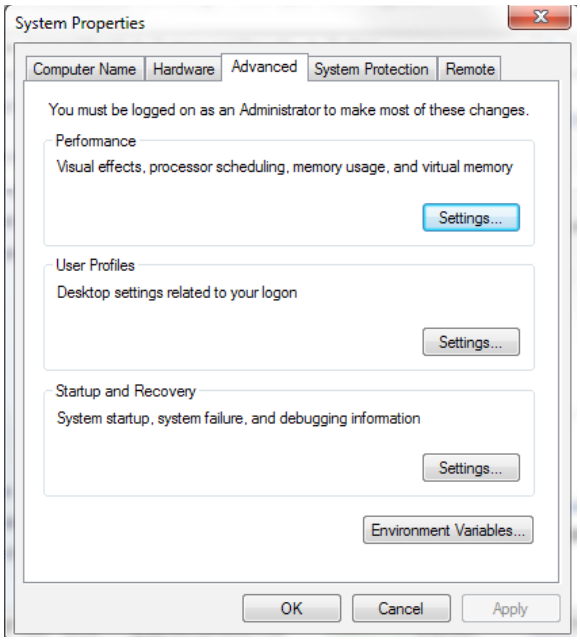
When you have a list of all the Cuda capable devices on your system, an Environment Variable needs to be created. The 'Tesla C2075's are only to be used as 'Rendering Devices'.

To create an 'Environment Variable' do the following:

1. Right-click on **Computer** and select **Properties**.



2. Select **Advanced system settings** from the left of the window.



3 Select the **Advanced** tab in the **System Properties** pop-up.

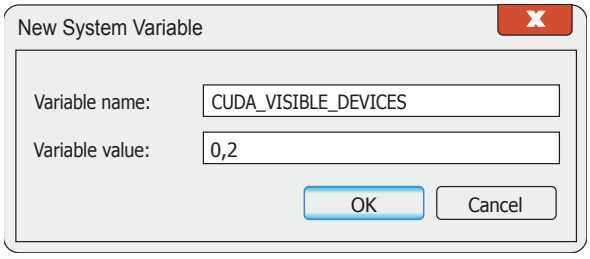
4 Press **Environment Variables** at the bottom-right of the window.

This opens the **Environment Variables** window.

5 Press **New** in the **System Variable** section.

6 Type **CUDA_VISIBLE_DEVICES** in the **Variable name** field.

This must be a 'System' variable, not a 'User' variable.



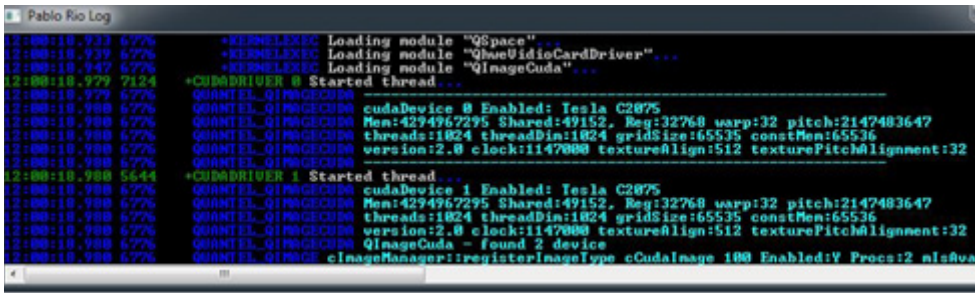
7 Type the Cuda device IDs of the C2075 cards into the **Variable value** field, eg **0,2**.

8 Press **OK** and when the next window opens, **OK** again.

Launching Pablo Rio

To launch Pablo Rio, double-click on the desktop shortcut icon. The software boots and writes all the necessary registry settings.

You can make sure Pablo Rio is running with the installed Teslas by checking the Quantel log after the software has booted.



The beginning of the log displays the CUDA installed devices.

The log does not display the card used for the display output.

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VTR

Serial Controller

Quantel

Installing the VTR Serial Controller

Step 1: Install Hardware

To install the VTR hardware do the following:

1. Ensure the all software programs are closed. Turn off the platform's power button and any connected components and unplug them from the main power supply.
2. Remove the side panel of the unit.
3. Locate an expansion slot that is not being used and remove the screw securing the blanking panel and then remove the panel.
4. Insert the USB serial card into the vacant expansion slot and secure it with the screw.
5. Now locate a USB header that is not being used. This consists of 9 pins: a row of 5 and a row of 4. See your platform's documentation for location of USB headers.
6. Plug the grey 10 pin connector into the motherboard header and the silver Type-B connector into the USB serial card.

Connect Extension Cable & Power

If your platform has Molex power connectors, start at step 2 in this section.

To complete hardware installation do the following:

1. Connect the 'SATA to Molex' adaptor to a SATA power connector that is not being used.
2. Connect one end of the Molex extension cable to the power connector and the other end to the USB serial card's Molex connector.
3. Replace the unit's side panel and connect it to the main power supply.
4. Turn the PC on.

Step 2: Install Drivers

You need to have administrative privileges to install drivers for the USB serial card.

To install the drivers for the USB serial card do the following:

1. Open a browser and navigate to the following link:

   http://www1.quantel.co.uk/public/wbsr2.nsf/pubindex/PabloRioUtilities?OpenDocument

2. Download the **CDM 2.06.00 WHQL Certified.zip** file.
3. Unzip the contents of the **CDM 2.06.00 WHQL Certified.zip** file to a temporary

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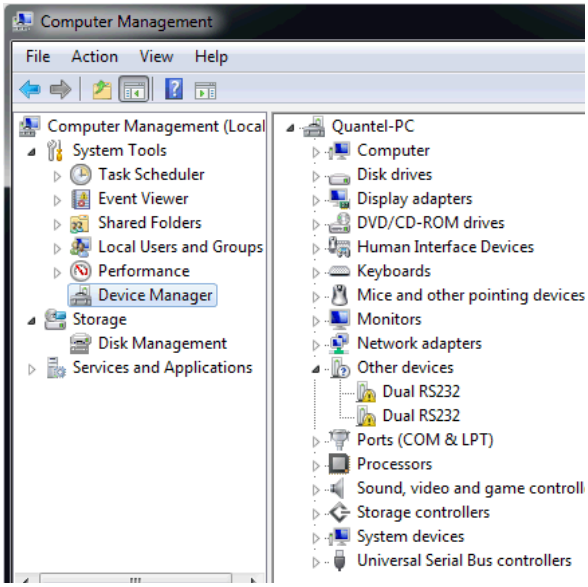
location (eg **C:\Temp**).

4 Right-click **Computer** and press **Manage**.



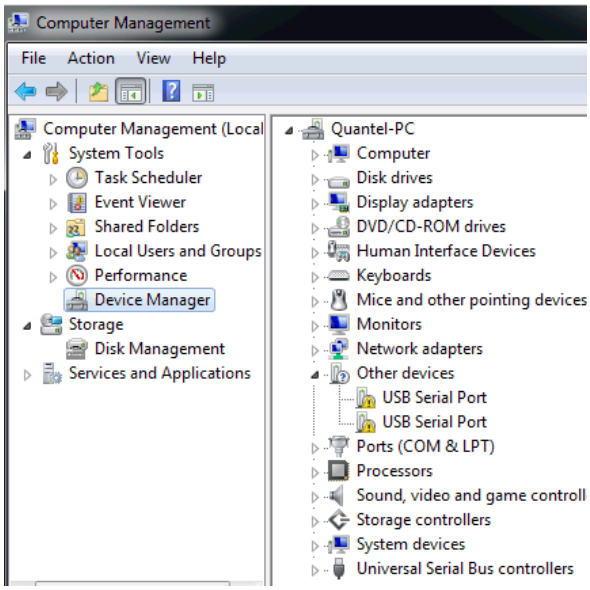
5 Press **Device Manager** in the left panel. Two **Dual RS232** devices are listed in the **Other devices** group in the right panel.

6 Right-click on the first **Dual RS232** device (ie the top one) and select **Update Driver Software**.

7 Select **Browse my computer for driver software**.

8 Press **Browse** and then navigate to the folder containing the unzipped files, eg **C:\Temp\CDM 2.06.00 WHQL Certified** and press **Next >**.

9 After the driver has been installed press **Close**. In **Device Manager**, a **USB Serial Port** device now appears in the **Other Devices** group. Also a **USB Serial Converter A** device appears in the **Universal Serial Bus controllers**' group.



10 Repeat steps **6** – **9** for the second **Dual RS232**.

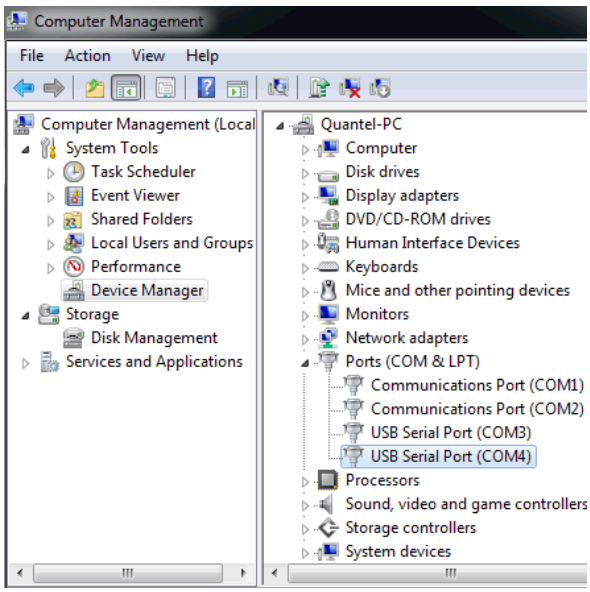
A second **USB Serial Port** device appears in the **Other devices** group and a **USB Serial Converted B** device appears in the **Universal Serial Bus controllers**' group.

11 Right-click on the first **USB Serial Port** device (ie the top one) and select **Update Driver Software**.

12 Select **Browse my computer for driver software**.

13 Press **Browse** and then navigate to the folder containing the unzipped files, eg **C:\Temp\CDM 2.06.00 WHQL Certified** and press **Next >**.

14 After the driver has been installed press **Close**. A **USB Serial Port (COMxx)** appears in the **Ports (COM & LPT)** group.



15 Repeat steps **11** -**14** for the second **USB Serial Port** device. A second **USB Serial Port (COMxx)** appears in the Ports (COM & LPT) group.

The COM port designations may be different; this will be corrected in the following section.

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Step 3: Configure Serial Ports

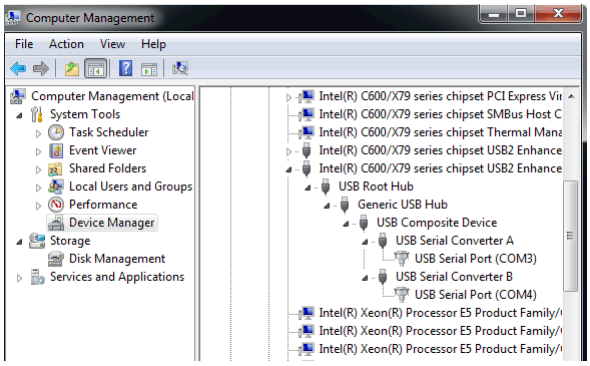
The serial ports need to be configured as **COM3 (VTR A)** and **COM4 (VTR B)**. It is recommended that any other serial ports present on the system (Except **COM1** & **COM2**) are removed or disabled.

The serial ports need to be setup exactly as shown: failure to do so may result in the system not functioning correctly.

To configure the serial ports do the following:

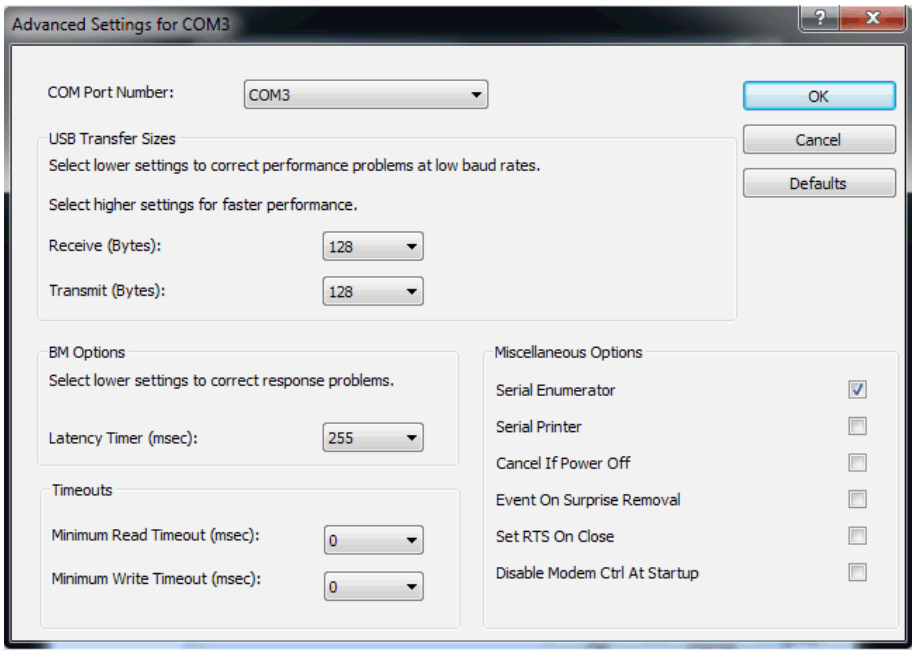
1. Open **Device Manager** by right-clicking on **Computer** and pressing **Manage – Device Manager**.
2. Press **View – Devices by connection**.
3. Expand the subsections in the left panel of **Device Manager** so that the **USB Serials Ports** are visible.

The sections that need expanding may vary from system to system.



4. Right-click on the first **USB Serial Port (COMxx)** device (which is connected to **USB Serial Converter A**) and select **Properties**.

5. Press **Port Settings – Advanced**.



6. Select **COM3** from the **COM Port Number** box.

7 Select **128** in the **Recieve (Bytes)** box and the **Transmit (Bytes)** box.

8 Select **255** in the **Latency Timer (msec)** box and ensure both **Timeouts** are set to **0**.

9 Ensure the **Serial Enumerator** tick box is selected and press **OK**.

10 Right-click on the second **USB Serial Port (COMxx)** device (which is connected to **USB Serial Converter B**) and select **Properties**.

11 Press **Port Settings – Advanced** and select **COM4** from the **COM Port Number box**.

12 Repeat steps **7** – **10** for **COM4**.

The VTR ports are now ready to use.

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Appendices

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Appendix A

About This Manual

This guide covers software available on some Quantel stand-alone and server-connected systems. It may cover functions or options not available on the system you are using.

This guide was written and published by Quantel. The bottom of each page displays the guide's reference number, eg **2140-57-018** plus a revision letter, eg **B** (B being more recent than A which is the original). The publish date is also indicated in the format **mm/yy**. If you require hard copies of this guide, always quote the reference number, revision letter and title.

2140-57-010 revision	**publish date**	*ECO (Quantel use only)*	**software version**
E	**08/13**	**E45017**	**V1**

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Notices

Maintenance

WARNING (WM2) SERVICE PERSONNEL – MAINTENANCE AND CALIBRATION WITHIN THE EQUIPMENT ENCLOSURE IS ONLY TO BE CARRIED OUT BY SERVICE PERSONNEL (12/97)

Conventions Used

Symbols

See: Reference to other items in this document or in other documents.

Notes: System, software and workflow points to consider and remember.

Tips: Useful hints and advice when undertaking tasks.

Information: Additional hardware or software information which may be useful.

Cautions: Indicate possible damage to (or misalignment of) the equipment if the indicated statements are ignored or the indicated procedures are not followed correctly.

WARNINGS: INDICATE DANGER TO LIFE AND LIMB IF THE INDICATED STATEMENTS ARE IGNORED, OR THE INDICATED PROCEDURES ARE NOT FOLLOWED CORRECTLY.

Text

<Text>	indicates a specific key press on the QWERTY keyboard.
Text/text	indicates a genQ menu function/option or an <F1> Configuration Window menu/setting. The first letter is either upper case or lower case to match the genQ GUI.
NN/nn	indicates a value entered on a numeric keypad.
Text/text	indicates either a Quantel control panel function or a Windows/Quantel installation/ system setting.

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This manual is not product specific and may detail features that are not available on all systems.

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